

EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|---------------------------|------------------|---------|---------------------|
| L3 | 95 | krymski.in. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 22:03 |
| L4 | 4 | "348".clas. and replac\$4 with smaller with (plural\$4 or multiple) with capacitors | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 22:16 |
| L5 | 10 | ("20020139921" "5949483" "6222175" "6377304" "6421085" "6850278" "6900832" "7242427").PN. OR ("7319218").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 22:17 |
| L6 | 13 | ("20050110002" "20050168602" "20050168605" "20050179795" "20050259167" "20060238633" "20070001252" "5892540" "6973265" "7046284" "7227208" "7245321" "7319218"). PN. OR ("7561199").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 22:22 |
| L7 | 8 | ("20020134918" "20040145402" "5712682" "6137533" "6154252" "6396048" "6747264" "7005628"). PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 22:28 |
| L8 | 2 | ("6396048").URPN. | USPAT | OR | ON | 2009/11/19 22:30 |
| L9 | 36 | ("20020047934" "20030133627" "20040135911" "20040252209" "5148268" "5248971" "5382977" "5471515" "5880460" "5892540" "5929434" "6115066" "6417504" "6441357" "6456326" "6476374" "6483116" "6493030" "6498331" "6504141" "6532040" "6535247" "6538245" "6566697" "6583817" "6587142" "6624850" "6677996" "6697111" "6809767" | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 22:33 |

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|-----|----|--|---------------------------|----|----|---------------------|
| | | "6888572").PN. OR ("7046284").URPN. | | | | |
| L10 | 13 | ("20050110002" "20050168602" "20050168605" "20050179795" "20050259167" "20060238633" "20070001252" "5892540" "6973265" "7046284" "7227208" "7245321" "7319218"). PN. OR ("7561199").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 22:34 |
| L11 | 13 | ("20020034918" "20020134918" "20040008813" "20050052552" "20050259167" "20050270392" "20050270393" "4603354" "5698844" "5909026" "5949483" "6185274" "6661451"). PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 22:50 |
| L12 | 9 | ("20020139921" "20020154347" "20030193580" "20040246354" "5949483" "6222175" "6377304" "6421085" "6850278").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 22:50 |
| L13 | 16 | ("20040041080" "20040051802" "20060001753" "4129863" "4200863" "5235333" "5793322" "5841126" "5880691" "6441357" "6567028" "6881942" "6885396" "7068319").PN. OR ("7336214").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 22:58 |
| L14 | 32 | ("20020054233" "20020139921" "20020166948" "20040207739" "20040233324" "20050280737" "5471515" "5504909" "5886659" "5886691" "5929800" "6018364" "6124819" "6137432" "6229134" "6233012" "6366320" "6429413" "6441357" "6606122" "6646583" "6734905" "6753801" "6847399" | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 23:03 |

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|-----|-----|--|---------------------------------------|----|-----|---------------------|
| | | ("7005628").PN. OR ("7068319").URPN. | | | | |
| L15 | 10 | ("5898168" "5965871" "6130423" "6320616" "6320617" "6421085" "6441357" "6498347" "6512544" "6593966").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 23:31 |
| L30 | 6 | (reduc\$4 near3 noise) and (replac\$4 with smaller with (plural\$4 or multiple) with capacitors) | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 23:42 |
| L31 | 107 | (reduc\$4 near3 noise) and (smaller with (plural\$4 or multiple) with capacitors) | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 23:42 |
| L33 | 27 | 31 and averag\$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 23:43 |
| L34 | 3 | ((("6486504") or ("6008486") or ("20040041927"))).PN. | US-PGPUB; USPAT | OR | OFF | 2009/11/19 23:48 |
| L37 | 1 | ("6128039").PN. | US-PGPUB; USPAT | OR | OFF | 2009/11/20 00:09 |
| L38 | 15 | ("20030035499" "20050103977" "20050206752" "20060239079" "5572155" "5946033" "6011251" "6166768" "6303923" "6850278" "6853241" "7154075" "7274009" "7324144" "7453986").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/20 00:26 |
| L39 | 1 | ("6134298").PN. OR ("7453986").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/20 00:27 |
| S1 | 2 | "US 20050012836" | US-PGPUB; USPAT; USOCR; DERWENT | OR | ON | 2008/01/17 16:05 |
| S2 | 1 | ("20020154231").PN. | US-PGPUB; USPAT | OR | OFF | 2008/01/17 16:05 |
| S3 | 44 | ((ROBERT) near2 (GUIDASH)).INV. | USPAT | OR | ON | 2008/01/17 19:17 |
| S4 | 14 | ((ROBERT) near2 (GUIDASH)).INV. | US-PGPUB | OR | ON | 2008/01/17 16:13 |

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| S5 | 18 | ("4012587" "4242700" "4336556" "4455575" "4514766" "4602289" "4810901" "5051832" "5274476" "5283451" "5306906" "6211915" "6236434" "6583818" "6690421" "6760071" "6831692" "6885402"). PN. | US-PGPUB; USPAT | OR | ON | 2008/01/17 16:13 |
| S6 | 2 | "US 20040017497" | US-PGPUB; USPAT; USOCR; DERWENT | OR | ON | 2008/01/17 16:17 |
| S7 | 5 | ((("20070097244") or ("7315329") or ("7256831") or ("7242427") or ("7230646") or ("7256831")).PN. | US-PGPUB; USPAT | OR | OFF | 2008/01/17 19:17 |
| S8 | 71 | (US-20050161714-\$ or US-20040046883-\$ or US-20060209202-\$ or US-20070070232-\$ or US-20010048477-\$ or US-20060119725-\$ or US-20010043276-\$ or US-20040017497-\$ or US-20020075391-\$).did. or (US-5488239-\$ or US-4117510-\$ or US-4559550-\$ or US-5512945-\$ or US-5668597-\$ or US-4774586-\$ or US-6185270-\$ or US-4810901-\$ or US-4862487-\$ or US-6160580-\$ or US-6211915-\$ or US-4636826-\$ or US-6541805-\$ or US-4604652-\$ or US-5393997-\$ or US-4689687-\$ or US-6522356-\$ or US-5306906-\$ or US-4602289-\$ or US-6674094-\$ or US-6831692-\$ or US-6794692-\$ or US-4012587-\$ or US-5274476-\$ or US-6822682-\$ or US-4558365-\$).did. or (US-4200892-\$ or US-4477835-\$ or US-4336556-\$ or US-6933976-\$ or US-5051832-\$ or US-4514766-\$ or US-4455575-\$ or US-6690421-\$ or US-5793071-\$ or US-4720746-\$ or US-4847692-\$ or US-5353057-\$ or US-5379064-\$ or US-4500915-\$ or US-7217910-\$ or US- | US-PGPUB; USPAT | OR | ON | 2008/01/17 19:34 |

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|-----|-----|---|---------------------------|----|-----|---------------------|
| | | 5847758-\$ or US-3946421-\$ or US-6426493-\$ or US-6423959-\$ or US-4242700-\$ or US-7002631-\$ or US-6850277-\$ or US-6809764-\$ or US-6760071-\$ or US-5598017-\$ or US-5396121-\$ or US-5283451-\$.did. or (US-6111279-\$ or US-4493060-\$ or US-6586784-\$ or US-6885402-\$ or US-6583818-\$ or US-6236434-\$ or US-7079183-\$ or US-6707494-\$ or US-6677998-\$.).did. | | | | |
| S9 | 20 | fossum.in. and binning | US-PGPUB; USPAT | OR | ON | 2008/01/17 19:44 |
| S10 | 7 | ((("20020186312") or ("6970195") or ("5721422") or ("6885396") or ("6747699") or ("6844898") or ("3971065")).PN. | US-PGPUB; USPAT | OR | OFF | 2008/01/17 19:45 |
| S11 | 4 | ("4930006" "5410146" "5965892" "5973311").PN. OR ("6844898").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/17 19:46 |
| S12 | 18 | ("4948966" "5193018" "5371351").PN. OR ("5721422").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/17 19:48 |
| S13 | 63 | (chriiss and yoder).xa. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/17 19:48 |
| S14 | 11 | ("20010013901" "20020154233" "20020154347" "5793423" "5949483" "6239839" "6365886" "6452153" "6531690" "6747264" "7242427").PN. OR ("7304674").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/17 19:49 |
| S15 | 361 | (348/302).CCLS. | USPAT | OR | OFF | 2008/02/01 21:42 |
| S16 | 657 | (348/308).CCLS. | USPAT | OR | OFF | 2008/02/01 21:42 |
| S17 | 109 | (348/310).CCLS. | USPAT | OR | OFF | 2008/02/01 21:42 |
| S18 | 308 | (348/311).CCLS. | USPAT | OR | OFF | 2008/02/01 21:42 |
| S19 | 108 | (348/316).CCLS. | USPAT | OR | OFF | 2008/02/01 21:41 |
| S20 | 90 | (348/319).CCLS. | USPAT | OR | OFF | 2008/02/01 21:41 |

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|-----|-----|--|---------------------------|----|-----|---------------------|
| S21 | 169 | (348/272).CCLS. | USPAT | OR | OFF | 2008/02/01 21:41 |
| S22 | 312 | (348/273).CCLS. | USPAT | OR | OFF | 2008/02/01 21:41 |
| S23 | 36 | (348/281).CCLS. | USPAT | OR | OFF | 2008/02/01 20:58 |
| S24 | 48 | (348/282).CCLS. | USPAT | OR | OFF | 2008/02/01 20:58 |
| S25 | 39 | (348/283).CCLS. | USPAT | OR | OFF | 2008/02/01 20:58 |
| S26 | 252 | (348/220.1).CCLS. | USPAT | OR | OFF | 2008/02/01 21:41 |
| S27 | 113 | (348/221.1).CCLS. | USPAT | OR | OFF | 2008/02/01 21:41 |
| S28 | 131 | (348/302).CCLS. | US-PGPUB | OR | OFF | 2008/02/01 21:41 |
| S29 | 502 | (348/308).CCLS. | US-PGPUB | OR | OFF | 2008/02/01 21:41 |
| S30 | 21 | (348/310).CCLS. | US-PGPUB | OR | OFF | 2008/02/01 20:58 |
| S31 | 187 | (348/311).CCLS. | US-PGPUB | OR | OFF | 2008/02/01 21:41 |
| S32 | 16 | (348/316).CCLS. | US-PGPUB | OR | OFF | 2008/02/01 20:57 |
| S33 | 1 | (348/319).CCLS. | US-PGPUB | OR | OFF | 2008/02/01 20:57 |
| S34 | 215 | (348/272).CCLS. | US-PGPUB | OR | OFF | 2008/02/01 21:41 |
| S35 | 98 | (348/273).CCLS. | US-PGPUB | OR | OFF | 2008/02/01 21:40 |
| S36 | 4 | (348/281).CCLS. | US-PGPUB | OR | OFF | 2008/02/01 20:57 |
| S37 | 2 | (348/282).CCLS. | US-PGPUB | OR | OFF | 2008/02/01 20:57 |
| S38 | 3 | (348/283).CCLS. | US-PGPUB | OR | OFF | 2008/02/01 20:57 |
| S39 | 148 | (348/220.1).CCLS. | US-PGPUB | OR | OFF | 2008/02/01 21:40 |
| S40 | 18 | (348/221.1).CCLS. | US-PGPUB | OR | OFF | 2008/02/01 20:57 |
| S41 | 28 | "348".clas. and (shar\$4 with float\$4 with diffusion) | USPAT | OR | ON | 2008/02/02 16:30 |
| S42 | 4 | ("20040012697" "20050012836" "20050110884" "20060146161").PN. OR ("7238926").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/02/02 18:53 |

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|-----|------|---|---------------------------|----|-----|---------------------|
| S43 | 1 | ("6686960").PN. | USPAT | OR | OFF | 2008/02/02 19:15 |
| S44 | 15 | ossum.in. and binning | USPAT | OR | ON | 2008/02/02 19:16 |
| S45 | 2829 | (250/208.1).CCLS. | USPAT | OR | OFF | 2008/08/12 16:31 |
| S46 | 1201 | (250/208.1).CCLS. | US-PGPUB | OR | OFF | 2008/08/12 16:31 |
| S47 | 4030 | (250/208.1).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/08/12 16:31 |
| S48 | 348 | S47 and (shar\$4 or multiplex\$4) same amplif \$4 | US-PGPUB; USPAT | OR | ON | 2008/08/12 16:31 |
| S49 | 109 | (348/316).CCLS. | USPAT | OR | OFF | 2008/08/12 18:31 |
| S50 | 17 | (348/316).CCLS. | US-PGPUB | OR | OFF | 2008/08/12 18:31 |
| S51 | 31 | ("4453177" "4603354" "4658287" "4928137" "4959723" "5043819" "5136370" "5148013" "5153731" "5196939" "5249041" "5264939" "5278660" "5418565" "5463419" "5486859" "5491512" "5493335" "5786588" "5880781" "5990946" "6011583" "6122007" "6124888" "6130710" "6275261" "6449013" "6529236"). PN. OR ("6784928").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/08/12 18:34 |
| S52 | 12 | ("4635122" "4816916" "4837630" "4839734" "4878121" "4897728" "5043819" "5148013"). PN. OR ("5400071").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/08/12 18:54 |
| S53 | 92 | (348/319).CCLS. | USPAT | OR | OFF | 2008/08/12 19:04 |
| S54 | 1 | (348/319).CCLS. | US-PGPUB | OR | OFF | 2008/08/12 19:04 |
| S55 | 42 | (348/283).CCLS. | USPAT | OR | OFF | 2008/08/12 20:15 |
| S56 | 3 | (348/283).CCLS. | US-PGPUB | OR | OFF | 2008/08/12 20:15 |
| S58 | 1 | 10/229176 | US-PGPUB; USPAT | OR | ON | 2008/08/12 21:22 |
| S60 | 2 | 10/230222 | US-PGPUB; USPAT | OR | ON | 2008/08/12 21:22 |
| S61 | 631 | (348/241).CCLS. | USPAT | OR | OFF | 2008/08/13 16:02 |

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|-----|--------|---|--------------------|----|-----|---------------------|
| S62 | 314 | (348/241).CCLS. | US-PGPUB | OR | OFF | 2008/08/13 16:02 |
| S63 | 214 | (S61 S62) and averag\$4 | USPAT | OR | ON | 2008/08/13 16:02 |
| S64 | 377 | (S61 S62) and averag\$4 | US-PGPUB; USPAT | OR | ON | 2008/08/13 16:02 |
| S65 | 1377 | floating adj diffusion | USPAT | OR | ON | 2008/08/15 13:23 |
| S66 | 1069 | (floating adj diffusion) with charge | USPAT | OR | ON | 2008/08/15 13:23 |
| S67 | 634 | (floating adj diffusion) with charge with voltage | USPAT | OR | ON | 2008/08/15 13:23 |
| S68 | 504 | (floating adj diffusion) with charge with voltage and pixel | USPAT | OR | ON | 2008/08/15 13:24 |
| S69 | 320 | (348/229.1).CCLS. | USPAT | OR | OFF | 2008/08/15 19:10 |
| S71 | 119275 | "348".clas. | US-PGPUB; USPAT | OR | ON | 2008/08/15 19:12 |
| S72 | 10229 | (short same long) and (dynamic near3 range) | US-PGPUB; USPAT | OR | ON | 2008/08/15 19:26 |
| S73 | 1030 | S71 and S72 | US-PGPUB; USPAT | OR | ON | 2008/08/15 19:26 |
| S74 | 9 | ((("6919551") or ("5436662") or ("20020175269") or ("6067113") or ("6483541") or ("6128039") or ("20030071195") or ("7068312") or ("6351283"))).PN. | US-PGPUB; USPAT | OR | OFF | 2008/08/15 19:33 |
| S75 | 6812 | (short same long) and (dynamic near3 range) and averag\$4 | US-PGPUB; USPAT | OR | ON | 2008/08/15 19:51 |
| S76 | 603 | S71 and S75 | US-PGPUB; USPAT | OR | ON | 2008/08/15 19:51 |
| S77 | 32 | (348/235).CCLS. | USPAT | OR | OFF | 2008/08/15 19:57 |
| S78 | 4 | (348/235).CCLS. | US-PGPUB | OR | OFF | 2008/08/15 19:58 |
| S79 | 15 | (348/367).CCLS. | US-PGPUB | OR | OFF | 2008/08/15 19:59 |
| S80 | 62 | (348/367).CCLS. | USPAT | OR | OFF | 2008/08/15 19:59 |
| S81 | 52 | (348/364).CCLS. | US-PGPUB | OR | OFF | 2008/08/15 20:01 |
| S82 | 244 | (348/364).CCLS. | USPAT | OR | OFF | 2008/08/15 20:02 |

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|-----|----|---|---------------------------|----|----|---------------------|
| S83 | 75 | (chriss and yoder).xa. | USPAT | OR | ON | 2008/08/15 20:05 |
| S84 | 29 | ("20020027189" "20030001962" "20030184659" "20040017498" "4706123" "4819074" "5036400" "5065247" "5079622" "5264940" "5416515" "5420635" "5714753" "5929908" "6211915" "6219097" "6593970" "6670993" "6765611" "6771312" "6809768" "6831692" "6839087" "6859230" "6873442" "6909461" "6924841" "6970195" "7024108").PN. OR ("7400355").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/08/15 20:05 |
| S85 | 14 | ("20020130957" "4647975" "6115065" "6137100" "6204881" "6275259" "6388709" "6646246" "6697114" "6710804" "6724426" "6765611").PN. OR ("6924841").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/08/15 20:07 |
| S86 | 59 | ("4589024" "4626916" "4706123" "4819070" "4821103" "4884142" "4959723" "5084704" "5162914" "5262871" "5264944" "5274459" "5434619" "5471515" "5485206" "5541402" "5541654" "5576763" "5585847").PN. OR ("6115065").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/08/15 20:10 |
| S87 | 24 | ("20020027189" "20020100862" "20050128329" "20060119717" "5420635" "5471515" "5587596" "5589880" "5600696" "5841126" "5872595" "5920345" "6008486" "6040570" "6115065" "6180935" "6188433" "6211915" "6289139" "6317154" "6320616" "6429898" "6606121" "6831689"). PN. OR ("7382407").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/08/15 20:12 |

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|------|-----|--|------------------------|----|-----|------------------|
| S88 | 29 | ("4845382" "4914519" "5278658").PN. OR ("5434619").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/08/15 20:27 |
| S89 | 14 | ("4843473" "5274459" "5434619" "5737016" "5998779" "6008486" "6067113" "6118115" "6166769" "6476864" "6535247" "6538693").PN. OR ("6803952").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/08/15 20:29 |
| S90 | 44 | ((ROBERT) near2 (GUIDASH)).INV. | USPAT | OR | ON | 2008/08/16 14:20 |
| S91 | 15 | ((ROBERT) near2 (GUIDASH)).INV. | US-PGPUB | OR | ON | 2008/08/16 14:20 |
| S92 | 385 | (348/302).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S93 | 717 | (348/308).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S94 | 113 | (348/310).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S95 | 326 | (348/311).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S96 | 109 | (348/316).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S97 | 183 | (348/272).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S98 | 329 | (348/273).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S99 | 38 | (348/281).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S100 | 53 | (348/282).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S101 | 272 | (348/220.1).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S102 | 120 | (348/221.1).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S103 | 143 | (348/302).CQLS. | US-PGPUB | OR | OFF | 2008/08/16 14:20 |
| S104 | 562 | (348/308).CQLS. | US-PGPUB | OR | OFF | 2008/08/16 14:20 |
| S105 | 21 | (348/310).CQLS. | US-PGPUB | OR | OFF | 2008/08/16 14:20 |
| S106 | 215 | (348/311).CQLS. | US-PGPUB | OR | OFF | 2008/08/16 14:20 |
| S107 | 17 | (348/316).CQLS. | US-PGPUB | OR | OFF | 2008/08/16 14:20 |
| S108 | 221 | (348/272).CQLS. | US-PGPUB | OR | OFF | 2008/08/16 14:20 |

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|------|--------|---|--------------------|----|-----|---------------------|
| S109 | 105 | (348/273).CQLS. | US-PGPUB | OR | OFF | 2008/08/16 14:20 |
| S110 | 5 | (348/281).CQLS. | US-PGPUB | OR | OFF | 2008/08/16 14:20 |
| S111 | 2 | (348/282).CQLS. | US-PGPUB | OR | OFF | 2008/08/16 14:20 |
| S112 | 167 | (348/220.1).CQLS. | US-PGPUB | OR | OFF | 2008/08/16 14:20 |
| S113 | 23 | (348/221.1).CQLS. | US-PGPUB | OR | OFF | 2008/08/16 14:20 |
| S114 | 32 | "348".clas. and (shar\$4 with float\$4 with diffusion) | USPAT | OR | ON | 2008/08/16 14:20 |
| S115 | 4033 | (250/208.1).CQLS. | US-PGPUB; USPAT | OR | OFF | 2008/08/16 14:20 |
| S116 | 348 | S115 and (shar\$4 or multiplex\$4) same amplif \$4 | US-PGPUB; USPAT | OR | ON | 2008/08/16 14:20 |
| S117 | 109 | (348/316).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S118 | 17 | (348/316).CQLS. | US-PGPUB | OR | OFF | 2008/08/16 14:20 |
| S119 | 92 | (348/319).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S120 | 1 | (348/319).CQLS. | US-PGPUB | OR | OFF | 2008/08/16 14:20 |
| S121 | 42 | (348/283).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S122 | 3 | (348/283).CQLS. | US-PGPUB | OR | OFF | 2008/08/16 14:20 |
| S123 | 631 | (348/241).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S124 | 314 | (348/241).CQLS. | US-PGPUB | OR | OFF | 2008/08/16 14:20 |
| S125 | 214 | (S123 S124) and averag\$4 | USPAT | OR | ON | 2008/08/16 14:20 |
| S126 | 377 | (S123 S124) and averag\$4 | US-PGPUB; USPAT | OR | ON | 2008/08/16 14:20 |
| S127 | 504 | (floating adj diffusion) with charge with voltage and pixel | USPAT | OR | ON | 2008/08/16 14:20 |
| S128 | 320 | (348/229.1).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S129 | 119275 | "348".clas. | US-PGPUB; USPAT | OR | ON | 2008/08/16 14:20 |
| S130 | 10229 | (short same long) and dynamic near3 range) | US-PGPUB; USPAT | OR | ON | 2008/08/16 14:20 |
| S131 | 1030 | S129 and S130 | US-PGPUB; USPAT | OR | ON | 2008/08/16 14:20 |

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|------|------|---|---------------------------|----|-----|---------------------|
| S132 | 6812 | (short same long) and (dynamic near3 range) and averag\$4 | US-PGPUB; USPAT | OR | ON | 2008/08/16 14:20 |
| S133 | 603 | S129 and S132 | US-PGPUB; USPAT | OR | ON | 2008/08/16 14:20 |
| S134 | 32 | (348/235).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S135 | 4 | (348/235).CQLS. | US-PGPUB | OR | OFF | 2008/08/16 14:20 |
| S136 | 15 | (348/367).CQLS. | US-PGPUB | OR | OFF | 2008/08/16 14:20 |
| S137 | 62 | (348/367).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S138 | 52 | (348/364).CQLS. | US-PGPUB | OR | OFF | 2008/08/16 14:20 |
| S139 | 244 | (348/364).CQLS. | USPAT | OR | OFF | 2008/08/16 14:20 |
| S140 | 29 | ("20020027189" "20030001962" "20030184659" "20040017498" "4706123" "4819074" "5036400" "5065247" "5079622" "5264940" "5416515" "5420635" "5714753" "5929908" "6211915" "6219097" "6593970" "6670993" "6765611" "6771312" "6809768" "6831692" "6839087" "6859230" "6873442" "6909461" "6924841" "6970195" "7024108").PN. OR ("7400355").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/08/16 14:20 |
| S141 | 14 | ("20020130957" "4647975" "6115065" "6137100" "6204881" "6275259" "6388709" "6646246" "6697114" "6710804" "6724426" "6765611").PN. OR ("6924841").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/08/16 14:20 |

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|------|----|---|---------------------------|----|-----|---------------------|
| S142 | 59 | ("4589024" "4626916" "4706123" "4819070" "4821103" "4884142" "4959723" "5084704" "5162914" "5262871" "5264944" "5274459" "5434619" "5471515" "5485206" "5541402" "5541654" "5576763" "5585847").PN. OR ("6115065").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/08/16 14:20 |
| S143 | 24 | ("20020027189" "20020100862" "20050128329" "20060119717" "5420635" "5471515" "5587596" "5589880" "5600696" "5841126" "5872595" "5920345" "6008486" "6040570" "6115065" "6180935" "6188433" "6211915" "6289139" "6317154" "6320616" "6429898" "6606121" "6831689"). PN. OR ("7382407").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/08/16 14:20 |
| S144 | 29 | ("4845382" "4914519" "5278658").PN. OR ("5434619").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/08/16 14:20 |
| S145 | 14 | ("4843473" "5274459" "5434619" "5737016" "5998779" "6008486" "6067113" "6118115" "6166769" "6476864" "6535247" "6538693"). PN. OR ("6803952").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/08/16 14:20 |
| S146 | 3 | ((("6970195") or ("20060208163") or ("20060175536"))).PN. | US-PGPUB; USPAT | OR | OFF | 2009/05/08 13:46 |
| S147 | 1 | ("7087883").PN. | US-PGPUB; USPAT | OR | OFF | 2009/05/08 13:47 |
| S148 | 7 | ("4809075" "5955753" "6160281" "6218691" "6320617" "6750912"). PN. OR ("7087883").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 13:48 |

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|------|----|--|---------------------------|----|----|---------------------|
| S149 | 27 | ("4249122" "4463383" "4466018" "4676761" "4794247" "5043820" "5083016" "5296696" "5345266" "5471515" "5541402" "5576763" "5587596" "5608243" "5739562" "5757426" "5892540" "5898753" "5973311" "6107655" "6486913").PN. OR ("6750912").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 13:49 |
| S150 | 53 | ("4363963" "4547806" "4587562" "4644401" "4678938" "4763197"). PN. OR ("4809075").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 13:51 |
| S151 | 7 | ("4809075" "5955753" "6160281" "6218691" "6320617" "6750912"). PN. OR ("7087883").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 13:52 |
| S152 | 25 | ("20010006402" "20010010551" "4333111" "4809075" "5144447" "5214274" "5471515" "5485204" "5587596" "5654537" "5721425" "5744823" "5841126" "5877715" "5880691" "5892540" "5892541" "5933188" "6243134" "6433822" "6441852" "6469740"). PN. OR ("6791612").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 13:53 |
| S153 | 2 | ("2001/0006402").URPN. | USPAT | OR | ON | 2009/05/08 13:53 |
| S154 | 25 | ("20010006402" "20010007471" "20020018131" "20040041930" "20040041932" "20050012836" "20050110093" "20050248675" "20070018267" "20070285545" "6043478" "6107655" "6352869" "6486913" "6522357" "6657665" "6693670" "6731335" "6750912" "6867806" "7053947" "7064362" "7238926" "7244918" "7332786").PN. OR ("7443437").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 13:54 |

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|------|----|--|---------------------------|----|-----|---------------------|
| S155 | 18 | 10/229955 | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 13:54 |
| S156 | 8 | ("2002/0018131").URPN. | USPAT | OR | ON | 2009/05/08 14:00 |
| S157 | 4 | ("20020018131" "20040096124" "20050083421" "6377304").PN. OR ("7256381").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 14:02 |
| S158 | 5 | ("20040012697" "20050012836" "20050110884" "20060146161").PN. OR ("7238926").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 14:04 |
| S159 | 12 | ("5272535" "5274459" "5523570" "5751005" "5900623" "5955753" "6069365" "6091449" "6233013" "6465860"). PN. OR ("6867806").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 14:12 |
| S160 | 18 | ("4914518" "4942473" "5144442" "5148268" "5471515" "5493423" "5519514" "5543838" "5550653" "5576763" "5587596" "5625210" "5631704" "5654755" "5898168").PN. OR ("6233013").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 14:12 |
| S161 | 24 | ("4672453" "4827345" "4896216" "5105277" "5148268").PN. OR ("5543838").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 14:14 |
| S162 | 1 | ("6565824").PN. | USPAT | OR | OFF | 2009/05/08 15:44 |
| S163 | 4 | ("4930006" "5410146" "5965892" "5973311"). PN. OR ("6844898").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 16:21 |
| S164 | 20 | ("4948966" "5193018" "5371351").PN. OR ("5721422").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 16:21 |
| S165 | 12 | ("20010013901" "20020154233" "20020154347" "5793423" "5949483" "6239839" "6365886" "6452153" "6531690" "6747264" "7242427"). PN. OR ("7304674").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 16:21 |
| S166 | 46 | "348".clas. and (shar\$4 with float\$4 with diffusion) | USPAT | OR | ON | 2009/05/08 16:21 |

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|------|--------|--|------------------------|----|-----|------------------|
| S167 | 5 | ("20040012697" "20050012836" "20050110884" "20060146161").PN. OR ("7238926").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 16:21 |
| S168 | 16 | fossum.in. and binning | USPAT | OR | ON | 2009/05/08 16:21 |
| S169 | 3048 | (250/208.1).CCLS. | USPAT | OR | OFF | 2009/05/08 16:21 |
| S170 | 1319 | (250/208.1).CCLS. | US-PGPUB | OR | OFF | 2009/05/08 16:21 |
| S171 | 17 | (348/316).CCLS. | US-PGPUB | OR | OFF | 2009/05/08 16:21 |
| S172 | 34 | ("4453177" "4603354" "4658287" "4928137" "4959723" "5043819" "5136370" "5148013" "5153731" "5196939" "5249041" "5264939" "5278660" "5418565" "5463419" "5486859" "5491512" "5493335" "5786588" "5880781" "5990946" "6011583" "6122007" "6124888" "6130710" "6275261" "6449013" "6529236").PN. OR ("6784928").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 16:21 |
| S173 | 12 | ("4635122" "4816916" "4837630" "4839734" "4878121" "4897728" "5043819" "5148013").PN. OR ("5400071").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 16:21 |
| S174 | 1555 | floating adj diffusion | USPAT | OR | ON | 2009/05/08 16:21 |
| S175 | 1205 | (floating adj diffusion) with charge | USPAT | OR | ON | 2009/05/08 16:21 |
| S176 | 711 | (floating adj diffusion) with charge with voltage | USPAT | OR | ON | 2009/05/08 16:21 |
| S177 | 131200 | "348".clas. | US-PGPUB; USPAT | OR | ON | 2009/05/08 16:21 |
| S178 | 7542 | (short same long) and (dynamic near3 range) and averag\$4 | US-PGPUB; USPAT | OR | ON | 2009/05/08 16:21 |
| S179 | 45 | ((ROBERT) near2 (GUIDASH)).INV. | USPAT | OR | ON | 2009/05/08 16:21 |
| S180 | 15 | ((ROBERT) near2 (GUIDASH)).INV. | US-PGPUB | OR | ON | 2009/05/08 16:21 |
| S181 | 425 | (348/302).CCLS. | USPAT | OR | OFF | 2009/05/08 16:21 |

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|------|------|---|--------------------|----|-----|---------------------|
| S182 | 813 | (348/308).CCLS. | USPAT | OR | OFF | 2009/05/08 16:21 |
| S183 | 126 | (348/310).CCLS. | USPAT | OR | OFF | 2009/05/08 16:21 |
| S184 | 349 | (348/311).CCLS. | USPAT | OR | OFF | 2009/05/08 16:21 |
| S185 | 115 | (348/316).CCLS. | USPAT | OR | OFF | 2009/05/08 16:21 |
| S186 | 203 | (348/272).CCLS. | USPAT | OR | OFF | 2009/05/08 16:21 |
| S187 | 353 | (348/273).CCLS. | USPAT | OR | OFF | 2009/05/08 16:21 |
| S188 | 42 | (348/281).CCLS. | USPAT | OR | OFF | 2009/05/08 16:21 |
| S189 | 57 | (348/282).CCLS. | USPAT | OR | OFF | 2009/05/08 16:21 |
| S190 | 303 | (348/220.1).CCLS. | USPAT | OR | OFF | 2009/05/08 16:21 |
| S191 | 140 | (348/221.1).CCLS. | USPAT | OR | OFF | 2009/05/08 16:22 |
| S192 | 173 | (348/302).CCLS. | US-PGPUB | OR | OFF | 2009/05/08 16:22 |
| S193 | 660 | (348/308).CCLS. | US-PGPUB | OR | OFF | 2009/05/08 16:22 |
| S194 | 21 | (348/310).CCLS. | US-PGPUB | OR | OFF | 2009/05/08 16:22 |
| S195 | 273 | (348/311).CCLS. | US-PGPUB | OR | OFF | 2009/05/08 16:22 |
| S196 | 17 | (348/316).CCLS. | US-PGPUB | OR | OFF | 2009/05/08 16:22 |
| S197 | 226 | (348/272).CCLS. | US-PGPUB | OR | OFF | 2009/05/08 16:22 |
| S198 | 127 | (348/273).CCLS. | US-PGPUB | OR | OFF | 2009/05/08 16:22 |
| S199 | 5 | (348/281).CCLS. | US-PGPUB | OR | OFF | 2009/05/08 16:22 |
| S200 | 3 | (348/282).CCLS. | US-PGPUB | OR | OFF | 2009/05/08 16:22 |
| S201 | 192 | (348/220.1).CCLS. | US-PGPUB | OR | OFF | 2009/05/08 16:22 |
| S202 | 27 | (348/221.1).CCLS. | US-PGPUB | OR | OFF | 2009/05/08 16:22 |
| S203 | 46 | *348*.clas. and (shar\$4 with float\$4 with diffusion) | USPAT | OR | ON | 2009/05/08 16:22 |
| S204 | 4367 | (250/208.1).CCLS. | US-PGPUB; USPAT | OR | OFF | 2009/05/08 16:22 |

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|------|--------|---|-----------------|----|-----|------------------|
| S205 | 377 | S204 and (shar\$4 or multiplex\$4) same amplif \$4 | US-PGPUB; USPAT | OR | ON | 2009/05/08 16:22 |
| S206 | 115 | (348/316).CQLS. | USPAT | OR | OFF | 2009/05/08 16:22 |
| S207 | 17 | (348/316).CQLS. | US-PGPUB | OR | OFF | 2009/05/08 16:22 |
| S208 | 93 | (348/319).CQLS. | USPAT | OR | OFF | 2009/05/08 16:22 |
| S209 | 2 | (348/319).CQLS. | US-PGPUB | OR | OFF | 2009/05/08 16:22 |
| S210 | 43 | (348/283).CQLS. | USPAT | OR | OFF | 2009/05/08 16:22 |
| S211 | 3 | (348/283).CQLS. | US-PGPUB | OR | OFF | 2009/05/08 16:22 |
| S212 | 700 | (348/241).CQLS. | USPAT | OR | OFF | 2009/05/08 16:22 |
| S213 | 395 | (348/241).CQLS. | US-PGPUB | OR | OFF | 2009/05/08 16:22 |
| S214 | 237 | (S212 S213) and averag\$4 | USPAT | OR | ON | 2009/05/08 16:22 |
| S215 | 438 | (S212 S213) and averag\$4 | US-PGPUB; USPAT | OR | ON | 2009/05/08 16:22 |
| S216 | 577 | (floating adj diffusion) with charge with voltage and pixel | USPAT | OR | ON | 2009/05/08 16:22 |
| S217 | 358 | (348/229.1).CQLS. | USPAT | OR | OFF | 2009/05/08 16:22 |
| S218 | 131200 | "348".clas. | US-PGPUB; USPAT | OR | ON | 2009/05/08 16:22 |
| S219 | 11297 | (short same long) and (dynamic near3 range) | US-PGPUB; USPAT | OR | ON | 2009/05/08 16:22 |
| S220 | 1204 | S218 and S219 | US-PGPUB; USPAT | OR | ON | 2009/05/08 16:22 |
| S221 | 7542 | (short same long) and (dynamic near3 range) and averag\$4 | US-PGPUB; USPAT | OR | ON | 2009/05/08 16:22 |
| S222 | 712 | S218 and S221 | US-PGPUB; USPAT | OR | ON | 2009/05/08 16:22 |
| S223 | 37 | (348/235).CQLS. | USPAT | OR | OFF | 2009/05/08 16:22 |
| S224 | 4 | (348/235).CQLS. | US-PGPUB | OR | OFF | 2009/05/08 16:22 |
| S225 | 17 | (348/367).CQLS. | US-PGPUB | OR | OFF | 2009/05/08 16:22 |
| S226 | 68 | (348/367).CQLS. | USPAT | OR | OFF | 2009/05/08 16:22 |

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|------|-----|---|---------------------------|----|-----|---------------------|
| S227 | 54 | (348/364).CQLS. | US-PGPUB | OR | OFF | 2009/05/08 16:22 |
| S228 | 268 | (348/364).CQLS. | USPAT | OR | OFF | 2009/05/08 16:22 |
| S229 | 29 | ("20020027189" "20030001962" "20030184659" "20040017498" "4706123" "4819074" "5036400" "5065247" "5079622" "5264940" "5416515" "5420635" "5714753" "5929908" "6211915" "6219097" "6593970" "6670993" "6765611" "6771312" "6809768" "6831692" "6839087" "6859230" "6873442" "6909461" "6924841" "6970195" "7024108").PN. OR ("7400355").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 16:22 |
| S230 | 17 | ("20020130957" "4647975" "6115065" "6137100" "6204881" "6275259" "6388709" "6646246" "6697114" "6710804" "6724426" "6765611").PN. OR ("6924841").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 16:22 |
| S231 | 65 | ("4589024" "4626916" "4706123" "4819070" "4821103" "4884142" "4959723" "5084704" "5162914" "5262871" "5264944" "5274459" "5434619" "5471515" "5485206" "5541402" "5541654" "5576763" "5585847").PN. OR ("6115065").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 16:22 |
| S232 | 24 | ("20020027189" "20020100862" "20050128329" "20060119717" "5420635" "5471515" "5587596" "5589880" "5600696" "5841126" "5872595" "5920345" "6008486" "6040570" "6115065" "6180935" "6188433" "6211915" "6289139" "6317154" "6320616" "6429898" "6606121" "6831689"). PN. OR ("7382407").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 16:22 |

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|------|-----|--|------------------------|----|----|------------------|
| S233 | 30 | ("4845382" "4914519" "5278658").PN. OR ("5434619").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 16:22 |
| S234 | 15 | ("4843473" "5274459" "5434619" "5737016" "5998779" "6008486" "6067113" "6118115" "6166769" "6476864" "6535247" "6538693").PN. OR ("6803952").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 16:22 |
| S235 | 143 | (US-20020154231-\$ or US-20050012836-\$ or US-20020066849-\$ or US-20040017497-\$ or US-20070097244-\$ or US-20070070232-\$ or US-20020186312-\$ or US-20020145675-\$ or US-20030112350-\$ or US-20030081132-\$ or US-20030090581-\$ or US-20020057354-\$ or US-20020012055-\$ or US-20080156966-\$ or US-20070075221-\$ or US-20060273241-\$ or US-20060273240-\$ or US-20060208163-\$ or US-20060208161-\$ or US-20060175536-\$ or US-20040041931-\$ or US-20040051802-\$ or US-20020080263-\$ or US-20030001962-\$ or US-20020027189-\$ or US-20050128329-\$).did. or (US-20020100862-\$ or US-20080136933-\$ or US-20080030605-\$ or US-20010006402-\$ or US-20070285545-\$ or US-20070018267-\$ or US-20050110093-\$ or US-20020018131-\$ or US-20050083421-\$ or US-20050110884-\$).did. or (US-6690421-\$ or US-4930006-\$ or US-6236434-\$ or US-7230646-\$ or US-4514766-\$ or US-4455575-\$ or US-6798451-\$ or US-7256831-\$ or US-6844898-\$ or US-6423959-\$ or US-4774586-\$ or US-6160580-\$ or US-3971065-\$ or US-6522356-\$ or US-5721422-\$ or US-6185270-\$ or US- | US-PGPUB; USPAT | OR | ON | 2009/05/08 19:39 |

5396121-\$ or US-4559550-\$
\$ or US-4500915-\$ or US-7304674-\$ or US-7242427-\$
\$ or US-6674094-\$ or US-6452153-\$ or US-5896173-\$
\$ or US-7315329-\$ or US-7148927-\$).did. or (US-5278660-\$ or US-4876590-\$
\$ or US-4658287-\$ or US-4542409-\$ or US-6784928-\$
\$ or US-4453177-\$ or US-7238926-\$ or US-7075049-\$
\$ or US-7026596-\$ or US-6657665-\$ or US-6423994-\$
\$ or US-6352869-\$ or US-6686960-\$ or US-5500675-\$
\$ or US-5949483-\$ or US-7342213-\$ or US-5786588-\$
\$ or US-4959723-\$ or US-5440343-\$ or US-5400071-\$
\$ or US-5148013-\$ or US-4626898-\$ or US-4314279-\$
\$ or US-4816916-\$ or US-4553167-\$ or US-7408443-\$
\$ or US-6795119-\$).did. or (US-5027195-\$ or US-4821088-\$ or US-4814865-\$
\$ or US-7375748-\$ or US-6483541-\$ or US-7079178-\$
\$ or US-6710804-\$ or US-6697114-\$ or US-6204881-\$
\$ or US-6115065-\$ or US-4647975-\$ or US-6289139-\$
\$ or US-6040570-\$ or US-6008486-\$ or US-5841126-\$
\$ or US-5600696-\$ or US-6972794-\$ or US-6809766-\$
\$ or US-6529242-\$ or US-5434619-\$ or US-6950131-\$
\$ or US-6803952-\$ or US-7148462-\$ or US-6538693-\$
\$ or US-6476864-\$ or US-6067113-\$ or US-6466265-\$).did. or (US-6421085-\$
\$ or US-6166769-\$ or US-6809768-\$ or US-7068317-\$
\$ or US-6587146-\$ or US-6552323-\$ or US-7355641-\$
\$ or US-7379107-\$ or US-6970195-\$ or US-7087883-\$
\$ or US-6750912-\$ or US-6218691-\$ or US-4809075-\$
\$ or US-6791612-\$ or US-7443437-\$ or US-7256381-\$
\$ or US-6867806-\$ or US-6233013-\$ or US-6731335-\$
\$ or US-5543838-\$ or US-7518759-\$ or US-5148268-

| | | | | | | |
|------|------|---|------------------------|----|-----|------------------|
| | | \$ or US-5955753-\$ or US-7476836-\$ or US-5892540-\$ or US-7511323-\$ or US-7382010-\$).did. | | | | |
| S237 | 12 | S235 and (color adj differenc\$4) | US-PGPUB; USPAT | OR | ON | 2009/05/08 19:40 |
| S238 | 83 | "348".clas. and (adjacent or neighbor\$4) near3 (color adj differenc\$4) | US-PGPUB; USPAT | OR | ON | 2009/05/08 22:03 |
| S239 | 8 | ("4757377" "5034805").PN. OR ("5229859").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 22:14 |
| S240 | 32 | bryce near3 bayer | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 23:18 |
| S241 | 32 | bayer adj (filter or pattern) with (benefit or advantage) | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/08 23:26 |
| S242 | 685 | "348".clas. and (short with long) with (expos\$4 or integrat\$4) | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/09 09:59 |
| S243 | 374 | S242 and (dynamic near3 range) | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/09 09:59 |
| S245 | 4 | ("6008486" "6674470" "6680498" "6710804").PN. OR ("7397509").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/09 10:05 |
| S246 | 1 | ("6486504").PN. | USPAT | OR | OFF | 2009/05/09 10:05 |
| S247 | 199 | S242 and (dynamic near3 range) and averag\$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/09 10:14 |
| S248 | 39 | "348".clas. and ((short with long) with (expos\$4 or integrat\$4) same averag\$4) and (dynamic near3 range) | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/09 10:14 |
| S249 | 9 | ("5325449" "5488674" "5511155" "5828793" "5886822" "6075905").PN. OR ("6584235").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/09 10:25 |
| S250 | 1 | ("2003/0117520").URPN. | USPAT | OR | ON | 2009/05/09 10:26 |
| S251 | 0 | moorehead.xa. | USPAT | OR | ON | 2009/05/09 12:26 |
| S252 | 0 | moorhead.xa. | USPAT | OR | ON | 2009/05/09 12:26 |
| S253 | 8 | morehead.xa. | USPAT | OR | ON | 2009/05/09 12:26 |
| S254 | 3336 | "16 phase" | USPAT | OR | ON | 2009/05/09 12:27 |
| S255 | 183 | "16 phase" and "348".clas. | USPAT | OR | ON | 2009/05/09 12:27 |

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|------|----|---|---------------------------------------|----|-----|---------------------|
| S256 | 12 | ("5528291" "5608455"). PN. OR ("6583818").URIPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/05/09 12:29 |
| S257 | 2 | "US 20050012836" | US-PGPUB; USPAT; USOCR; DERWENT | OR | ON | 2009/11/19 13:38 |
| S258 | 1 | ("20020154231").PN. | US-PGPUB; USPAT | OR | OFF | 2009/11/19 13:38 |
| S259 | 45 | ((ROBERT) near2 (GUIDASH)).INV. | USPAT | OR | ON | 2009/11/19 13:38 |
| S260 | 16 | ((ROBERT) near2 (GUIDASH)).INV. | US-PGPUB | OR | ON | 2009/11/19 13:38 |
| S261 | 18 | ("4012587" "4242700" "4336556" "4455575" "4514766" "4602289" "4810901" "5051832" "5274476" "5283451" "5306906" "6211915" "6236434" "6583818" "6690421" "6760071" "6831692" "6885402"). PN. | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S262 | 3 | "US 20040017497" | US-PGPUB; USPAT; USOCR; DERWENT | OR | ON | 2009/11/19 13:38 |
| S263 | 5 | ((("20070097244") or ("7315329") or ("7256831") or ("7242427") or ("7230646") or ("7256831"))).PN. | US-PGPUB; USPAT | OR | OFF | 2009/11/19 13:38 |
| S264 | 71 | (US-20050161714-\$ or US- 20040046883-\$ or US- 20060209202-\$ or US- 20070070232-\$ or US- 20010048477-\$ or US- 20060119725-\$ or US- 20010043276-\$ or US- 20040017497-\$ or US- 20020075391-\$).did. or (US-5488239-\$ or US- 4117510-\$ or US-4559550- \$ or US-5512945-\$ or US- 5668597-\$ or US-4774586- \$ or US-6185270-\$ or US- 4810901-\$ or US-4862487- \$ or US-6160580-\$ or US- 6211915-\$ or US-4636826- \$ or US-6541805-\$ or US- 4604652-\$ or US-5393997- \$ or US-4689687-\$ or US- 6522356-\$ or US-5306906- \$ or US-4602289-\$ or US- 6674094-\$ or US-6831692- \$ or US-6794692-\$ or US- | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |

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|------|-----|--|---------------------------|----|-----|---------------------|
| | | 4012587-\$ or US-5274476-\$ or US-6822682-\$ or US-4558365-\$).did. or US-4200892-\$ or US-4477835-\$ or US-4336556-\$ or US-6933976-\$ or US-5051832-\$ or US-4514766-\$ or US-4455575-\$ or US-6690421-\$ or US-5793071-\$ or US-4720746-\$ or US-4847692-\$ or US-5353057-\$ or US-5379064-\$ or US-4500915-\$ or US-7217910-\$ or US-5847758-\$ or US-3946421-\$ or US-6426493-\$ or US-6423959-\$ or US-4242700-\$ or US-7002631-\$ or US-6850277-\$ or US-6809764-\$ or US-6760071-\$ or US-5598017-\$ or US-5396121-\$ or US-5283451-\$).did. or (US-6111279-\$ or US-4493060-\$ or US-6586784-\$ or US-6885402-\$ or US-6583818-\$ or US-6236434-\$ or US-7079183-\$ or US-6707494-\$ or US-6677998-\$).did. | | | | |
| S265 | 21 | fossum.in. and binning | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S266 | 7 | ((("20020186312") or ("6970195") or ("5721422") or ("6885396") or ("6747699") or ("6844898") or ("3971065")).PN. | US-PGPUB; USPAT | OR | OFF | 2009/11/19 13:38 |
| S267 | 4 | ("4930006" "5410146" "5965892" "5973311").PN. OR ("6844898").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S268 | 22 | ("4948966" "5193018" "5371351").PN. OR ("5721422").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S269 | 103 | (chriiss and yoder).xa. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S270 | 13 | ("20010013901" "20020154233" "20020154347" "5793423" "5949483" "6239839" "6365886" "6452153" "6531690" "6747264" "7242427").PN. OR ("7304674").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S271 | 464 | (348/302).OCLS. | USPAT | OR | OFF | 2009/11/19 13:38 |

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|------|-----|-------------------|----------|----|-----|---------------------|
| S272 | 885 | (348/308).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S273 | 129 | (348/310).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S274 | 374 | (348/311).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S275 | 117 | (348/316).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S276 | 95 | (348/319).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S277 | 229 | (348/272).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S278 | 380 | (348/273).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S279 | 49 | (348/281).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S280 | 63 | (348/282).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S281 | 46 | (348/283).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S282 | 321 | (348/220.1).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S283 | 156 | (348/221.1).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S284 | 210 | (348/302).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S285 | 761 | (348/308).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S286 | 21 | (348/310).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S287 | 302 | (348/311).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S288 | 17 | (348/316).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S289 | 2 | (348/319).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S290 | 227 | (348/272).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S291 | 149 | (348/273).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S292 | 6 | (348/281).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S293 | 3 | (348/282).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S294 | 3 | (348/283).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S295 | 211 | (348/220.1).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |

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|------|------|---|---------------------------|----|-----|---------------------|
| S296 | 30 | (348/221.1).CCLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S297 | 50 | "348" clas and (shar\$4 with float\$4 with diffusion) | USPAT | OR | ON | 2009/11/19 13:38 |
| S298 | 6 | ("20040012697" "20050012836" "20050110884" "20060146161").PN OR ("7238926").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S299 | 1 | ("6686960").PN. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S300 | 16 | fossum.in. and binning | USPAT | OR | ON | 2009/11/19 13:38 |
| S301 | 3197 | (250/208.1).CCLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S302 | 1403 | (250/208.1).CCLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S303 | 4600 | (250/208.1).CCLS. | US-PGPUB; USPAT | OR | OFF | 2009/11/19 13:38 |
| S304 | 406 | S303 and (shar\$4 or multiplex\$4) same amplif \$4 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S305 | 117 | (348/316).CCLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S306 | 17 | (348/316).CCLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S307 | 36 | ("4453177" "4603354" "4658287" "4928137" "4959723" "5043819" "5136370" "5148013" "5153731" "5196939" "5249041" "5264939" "5278660" "5418565" "5463419" "5486859" "5491512" "5493335" "5786588" "5880781" "5990946" "6011583" "6122007" "6124888" "6130710" "6275261" "6449013" "6529236"). PN. OR ("6784928").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S308 | 13 | ("4635122" "4816916" "4837630" "4839734" "4878121" "4897728" "5043819" "5148013"). PN. OR ("5400071").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S309 | 95 | (348/319).CCLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S310 | 2 | (348/319).CCLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |

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|------|--------|---|--------------------|----|-----|---------------------|
| S311 | 46 | (348/283).CCLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S312 | 3 | (348/283).CCLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S313 | 2 | 10/229176 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S314 | 2 | 10/230222 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S315 | 761 | (348/241).CCLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S316 | 453 | (348/241).CCLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S317 | 268 | (S315 S316) and averag\$4 | USPAT | OR | ON | 2009/11/19 13:38 |
| S318 | 506 | (S315 S316) and averag\$4 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S319 | 1739 | floating adj diffusion | USPAT | OR | ON | 2009/11/19 13:38 |
| S320 | 1346 | (floating adj diffusion) with charge | USPAT | OR | ON | 2009/11/19 13:38 |
| S321 | 787 | (floating adj diffusion) with charge with voltage | USPAT | OR | ON | 2009/11/19 13:38 |
| S322 | 646 | (floating adj diffusion) with charge with voltage and pixel | USPAT | OR | ON | 2009/11/19 13:38 |
| S323 | 385 | (348/229.1).CCLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S324 | 136153 | "348".clas. | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S325 | 12013 | (short same long) and (dynamic near3 range) | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S326 | 1286 | S324 and S325 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S327 | 9 | ((("6919551") or ("5436662") or ("20020175269") or ("6067113") or ("6483541") or ("6128039") or ("20030071195") or ("7068312") or ("6351283"))).PN. | US-PGPUB; USPAT | OR | OFF | 2009/11/19 13:38 |
| S328 | 8039 | (short same long) and (dynamic near3 range) and averag\$4 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S329 | 754 | S324 and S328 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S330 | 39 | (348/235).CCLS. | USPAT | OR | OFF | 2009/11/19 13:38 |

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|------|-----|---|---------------------------|----|-----|---------------------|
| S331 | 4 | (348/235).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S332 | 18 | (348/367).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S333 | 69 | (348/367).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S334 | 54 | (348/364).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S335 | 274 | (348/364).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S336 | 103 | (chriss and yoder).xa. | USPAT | OR | ON | 2009/11/19 13:38 |
| S337 | 29 | ("20020027189" "20030001962" "20030184659" "20040017498" "4706123" "4819074" "5036400" "5065247" "5079622" "5264940" "5416515" "5420635" "5714753" "5929908" "6211915" "6219097" "6593970" "6670993" "6765611" "6771312" "6809768" "6831692" "6839087" "6859230" "6873442" "6909461" "6924841" "6970195" "7024108").PN. OR ("7400355").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S338 | 20 | ("20020130957" "4647975" "6115065" "6137100" "6204881" "6275259" "6388709" "6646246" "6697114" "6710804" "6724426" "6765611").PN. OR ("6924841").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S339 | 69 | ("4589024" "4626916" "4706123" "4819070" "4821103" "4884142" "4959723" "5084704" "5162914" "5262871" "5264944" "5274459" "5434619" "5471515" "5485206" "5541402" "5541654" "5576763" "5585847").PN. OR ("6115065").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |

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|------|-----|--|---------------------------|----|-----|---------------------|
| S340 | 24 | ("20020027189" "20020100862" "20050128329" "20060119717" "5420635" "5471515" "5587596" "5589880" "5600696" "5841126" "5872595" "5920345" "6008486" "6040570" "6115065" "6180935" "6188433" "6211915" "6289139" "6317154" "6320616" "6428898" "6606121" "6831689"). PN. OR ("7382407").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S341 | 30 | ("4845382" "4914519" "5278658").PN. OR ("5434619").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S342 | 16 | ("4843473" "5274459" "5434619" "5737016" "5998779" "6008486" "6067113" "6118115" "6166769" "6476864" "6535247" "6538693"). PN. OR ("6803952").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S343 | 45 | ((ROBERT) near2 (GUIDASH)).INV. | USPAT | OR | ON | 2009/11/19 13:38 |
| S344 | 16 | ((ROBERT) near2 (GUIDASH)).INV. | US-PGPUB | OR | ON | 2009/11/19 13:38 |
| S345 | 464 | (348/302).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S346 | 885 | (348/308).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S347 | 129 | (348/310).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S348 | 374 | (348/311).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S349 | 117 | (348/316).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S350 | 229 | (348/272).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S351 | 380 | (348/273).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S352 | 49 | (348/281).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S353 | 63 | (348/282).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S354 | 321 | (348/220.1).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S355 | 156 | (348/221.1).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |

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|------|------|---|--------------------|----|-----|---------------------|
| S356 | 210 | (348/302).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S357 | 761 | (348/308).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S358 | 21 | (348/310).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S359 | 302 | (348/311).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S360 | 17 | (348/316).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S361 | 227 | (348/272).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S362 | 149 | (348/273).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S363 | 6 | (348/281).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S364 | 3 | (348/282).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S365 | 211 | (348/220.1).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S366 | 30 | (348/221.1).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S367 | 50 | "348".clas. and (shar\$4 with float\$4 with diffusion) | USPAT | OR | ON | 2009/11/19 13:38 |
| S368 | 4600 | (250/208.1).CQLS. | US-PGPUB; USPAT | OR | OFF | 2009/11/19 13:38 |
| S369 | 406 | S368 and (shar\$4 or multiplex\$4) same amplif \$4 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S370 | 117 | (348/316).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S371 | 17 | (348/316).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S372 | 95 | (348/319).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S373 | 2 | (348/319).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S374 | 46 | (348/283).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S375 | 3 | (348/283).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S376 | 761 | (348/241).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S377 | 453 | (348/241).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S378 | 268 | (S376 S377) and averag\$4 | USPAT | OR | ON | 2009/11/19 13:38 |

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|------|--------|--|---------------------------|----|-----|---------------------|
| S379 | 506 | (S376 S377) and averag\$4 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S380 | 646 | (floating adj diffusion) with charge with voltage and pixel | USPAT | OR | ON | 2009/11/19 13:38 |
| S381 | 385 | (348/229.1).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S382 | 136153 | "348".clas. | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S383 | 12013 | (short same long) and (dynamic near3 range) | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S384 | 1286 | S382 and S383 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S385 | 8039 | (short same long) and (dynamic near3 range) and averag\$4 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S386 | 754 | S382 and S385 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S387 | 39 | (348/235).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S388 | 4 | (348/235).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S389 | 18 | (348/367).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S390 | 69 | (348/367).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S391 | 54 | (348/364).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S392 | 274 | (348/364).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S393 | 29 | ("20020027189" "20030001962" "20030184659" "20040017498" "4706123" "4819074" "5036400" "5065247" "5079622" "5264940" "5416515" "5420635" "5714753" "5929908" "6211915" "6219097" "6593970" "6670993" "6765611" "6771312" "6809768" "6831692" "6839087" "6859230" "6873442" "6909461" "6924841" "6970195" "7024108").PN. OR ("7400355").URIPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |

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| S394 | 20 | ("20020130957" "4647975" "6115065" "6137100" "6204881" "6275259" "6388709" "6646246" "6697114" "6710804" "6724426" "6765611").PN. OR ("6924841").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S395 | 69 | ("4589024" "4626916" "4706123" "4819070" "4821103" "4884142" "4959723" "5084704" "5162914" "5262871" "5264944" "5274459" "5434619" "5471515" "5485206" "5541402" "5541654" "5576763" "5585847").PN. OR ("6115065").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S396 | 24 | ("20020027189" "20020100862" "20050128329" "20060119717" "5420635" "5471515" "5587596" "5589880" "5600696" "5841126" "5872595" "5920345" "6008486" "6040570" "6115065" "6180935" "6188433" "6211915" "6289139" "6317154" "6320616" "6429898" "6606121" "6831689"). PN. OR ("7382407").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S397 | 30 | ("4845382" "4914519" "5278658").PN. OR ("5434619").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S398 | 16 | ("4843473" "5274459" "5434619" "5737016" "5998779" "6008486" "6067113" "6118115" "6166769" "6476864" "6535247" "6538693"). PN. OR ("6803952").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S399 | 3 | ((("6970195") or ("20060208163") or ("20060175536")).PN. | US-PGPUB; USPAT | OR | OFF | 2009/11/19 13:38 |
| S400 | 1 | ("7087883").PN. | US-PGPUB; USPAT | OR | OFF | 2009/11/19 13:38 |
| S401 | 7 | ("4809075" "5955753" "6160281" "6218691" "6320617" "6750912"). PN. OR ("7087883").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |

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|------|----|--|---------------------------|----|----|---------------------|
| S402 | 30 | ("4249122" "4463383" "4466018" "4676761" "4794247" "5043820" "5083016" "5296696" "5345266" "5471515" "5541402" "5576763" "5587596" "5608243" "5739562" "5757426" "5892540" "5898753" "5973311" "6107655" "6486913").PN. OR ("6750912").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S403 | 54 | ("4363963" "4547806" "4587562" "4644401" "4678938" "4763197"). PN. OR ("4809075").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S404 | 7 | ("4809075" "5955753" "6160281" "6218691" "6320617" "6750912"). PN. OR ("7087883").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S405 | 25 | ("20010006402" "20010010551" "4333111" "4809075" "5144447" "5214274" "5471515" "5485204" "5587596" "5654537" "5721425" "5744823" "5841126" "5877715" "5880691" "5892540" "5892541" "5933188" "6243134" "6433822" "6441852" "6469740"). PN. OR ("6791612").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S406 | 2 | ("2001/0006402").URPN. | USPAT | OR | ON | 2009/11/19 13:38 |
| S407 | 25 | ("20010006402" "20010007471" "20020018131" "20040041930" "20040041932" "20050012836" "20050110093" "20050248675" "20070018267" "20070285545" "6043478" "6107655" "6352869" "6486913" "6522357" "6657665" "6693670" "6731335" "6750912" "6867806" "7053947" "7064362" "7238926" "7244918" "7332786").PN. OR ("7443437").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |

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|------|----|--|---------------------------|----|-----|---------------------|
| S408 | 18 | 10/229955 | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S409 | 10 | ("2002/0018131").URPN. | USPAT | OR | ON | 2009/11/19 13:38 |
| S410 | 4 | ("20020018131" "20040096124" "20050083421" "6377304").PN. OR ("7256381").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S411 | 6 | ("20040012697" "20050012836" "20050110884" "20060146161").PN. OR ("7238926").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S412 | 14 | ("5272535" "5274459" "5523570" "5751005" "5900623" "5955753" "6069365" "6091449" "6233013" "6465860"). PN. OR ("6867806").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S413 | 19 | ("4914518" "4942473" "5144442" "5148268" "5471515" "5493423" "5519514" "5543838" "5550653" "5576763" "5587596" "5625210" "5631704" "5654755" "5898168").PN. OR ("6233013").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S414 | 26 | ("4672453" "4827345" "4896216" "5105277" "5148268").PN. OR ("5543838").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S415 | 1 | ("6565824").PN. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S416 | 4 | ("4930006" "5410146" "5965892" "5973311"). PN. OR ("6844898").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S417 | 22 | ("4948966" "5193018" "5371351").PN. OR ("5721422").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S418 | 13 | ("20010013901" "20020154233" "20020154347" "5793423" "5949483" "6239839" "6365886" "6452153" "6531690" "6747264" "7242427"). PN. OR ("7304674").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S419 | 50 | "348".clas. and (shar\$4 with float\$4 with diffusion) | USPAT | OR | ON | 2009/11/19 13:38 |

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|------|--------|---|---------------------------|----|-----|---------------------|
| S420 | 6 | ("20040012697" "20050012836" "20050110884" "20060146161").PN. OR ("7238926").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S421 | 16 | fossum.in. and binning | USPAT | OR | ON | 2009/11/19 13:38 |
| S422 | 3197 | (250/208.1).CCLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S423 | 1403 | (250/208.1).CCLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S424 | 17 | (348/316).CCLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S425 | 36 | ("4453177" "4603354" "4658287" "4928137" "4959723" "5043819" "5136370" "5148013" "5153731" "5196939" "5249041" "5264939" "5278660" "5418565" "5463419" "5486859" "5491512" "5493335" "5786588" "5880781" "5990946" "6011583" "6122007" "6124888" "6130710" "6275261" "6449013" "6529236"). PN. OR ("6784928").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S426 | 13 | ("4635122" "4816916" "4837630" "4839734" "4878121" "4897728" "5043819" "5148013"). PN. OR ("5400071").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S427 | 1739 | floating adj diffusion | USPAT | OR | ON | 2009/11/19 13:38 |
| S428 | 1346 | (floating adj diffusion) with charge | USPAT | OR | ON | 2009/11/19 13:38 |
| S429 | 787 | (floating adj diffusion) with charge with voltage | USPAT | OR | ON | 2009/11/19 13:38 |
| S430 | 136153 | "348".clas. | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S431 | 8039 | (short same long) and dynamic near3 range) and averag\$4 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S432 | 45 | ((ROBERT) near2 (GUIDASH)).INV. | USPAT | OR | ON | 2009/11/19 13:38 |
| S433 | 16 | ((ROBERT) near2 (GUIDASH)).INV. | US-PGPUB | OR | ON | 2009/11/19 13:38 |
| S434 | 464 | (348/302).CCLS. | USPAT | OR | OFF | 2009/11/19 13:38 |

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|------|------|---|--------------------|----|-----|---------------------|
| S435 | 885 | (348/308).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S436 | 129 | (348/310).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S437 | 374 | (348/311).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S438 | 117 | (348/316).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S439 | 229 | (348/272).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S440 | 380 | (348/273).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S441 | 49 | (348/281).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S442 | 63 | (348/282).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S443 | 321 | (348/220.1).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S444 | 156 | (348/221.1).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S445 | 210 | (348/302).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S446 | 761 | (348/308).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S447 | 21 | (348/310).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S448 | 302 | (348/311).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S449 | 17 | (348/316).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S450 | 227 | (348/272).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S451 | 149 | (348/273).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S452 | 6 | (348/281).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S453 | 3 | (348/282).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S454 | 211 | (348/220.1).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S455 | 30 | (348/221.1).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S456 | 50 | "348".clas. and (shar\$4 with float\$4 with diffusion) | USPAT | OR | ON | 2009/11/19 13:38 |
| S457 | 4600 | (250/208.1).CQLS. | US-PGPUB; USPAT | OR | OFF | 2009/11/19 13:38 |

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|------|--------|---|-----------------|----|-----|------------------|
| S458 | 406 | S457 and (shar\$4 or multiplex\$4) same amplif \$4 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S459 | 117 | (348/316).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S460 | 17 | (348/316).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S461 | 95 | (348/319).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S462 | 2 | (348/319).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S463 | 46 | (348/283).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S464 | 3 | (348/283).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S465 | 761 | (348/241).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S466 | 453 | (348/241).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S467 | 268 | (S465 S466) and averag\$4 | USPAT | OR | ON | 2009/11/19 13:38 |
| S468 | 506 | (S465 S466) and averag\$4 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S469 | 646 | (floating adj diffusion) with charge with voltage and pixel | USPAT | OR | ON | 2009/11/19 13:38 |
| S470 | 385 | (348/229.1).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S471 | 136153 | "348".clas. | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S472 | 12013 | (short same long) and (dynamic near3 range) | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S473 | 1286 | S471 and S472 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S474 | 8039 | (short same long) and (dynamic near3 range) and averag\$4 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S475 | 754 | S471 and S474 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S476 | 39 | (348/235).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S477 | 4 | (348/235).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S478 | 18 | (348/367).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |
| S479 | 69 | (348/367).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S480 | 54 | (348/364).CQLS. | US-PGPUB | OR | OFF | 2009/11/19 13:38 |

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|------|-----|---|---------------------------|----|-----|---------------------|
| S481 | 274 | (348/364).CQLS. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S482 | 29 | ("20020027189" "20030001962" "20030184659" "20040017498" "4706123" "4819074" "5036400" "5065247" "5079622" "5264940" "5416515" "5420635" "5714753" "5929908" "6211915" "6219097" "6593970" "6670993" "6765611" "6771312" "6809768" "6831692" "6839087" "6859230" "6873442" "6909461" "6924841" "6970195" "7024108").PN. OR ("7400355").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S483 | 20 | ("20020130957" "4647975" "6115065" "6137100" "6204881" "6275259" "6388709" "6646246" "6697114" "6710804" "6724426" "6765611").PN. OR ("6924841").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S484 | 69 | ("4589024" "4626916" "4706123" "4819070" "4821103" "4884142" "4959723" "5084704" "5162914" "5262871" "5264944" "5274459" "5434619" "5471515" "5485206" "5541402" "5541654" "5576763" "5585847").PN. OR ("6115065").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S485 | 24 | ("20020027189" "20020100862" "20050128329" "20060119717" "5420635" "5471515" "5587596" "5589880" "5600696" "5841126" "5872595" "5920345" "6008486" "6040570" "6115065" "6180935" "6188433" "6211915" "6289139" "6317154" "6320616" "6429898" "6606121" "6831689"). PN. OR ("7382407").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |

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|------|-----|--|------------------------|----|----|------------------|
| S486 | 30 | ("4845382" "4914519" "5278658").PN. OR ("5434619").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S487 | 16 | ("4843473" "5274459" "5434619" "5737016" "5998779" "6008486" "6067113" "6118115" "6166769" "6476864" "6535247" "6538693").PN. OR ("6803952").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S488 | 143 | (US-20020154231-\$ or US-20050012836-\$ or US-20020066849-\$ or US-20040017497-\$ or US-20070097244-\$ or US-20070070232-\$ or US-20020186312-\$ or US-20020145675-\$ or US-20030112350-\$ or US-20030081132-\$ or US-20030090581-\$ or US-20020057354-\$ or US-20020012055-\$ or US-20080156966-\$ or US-20070075221-\$ or US-20060273241-\$ or US-20060273240-\$ or US-20060208163-\$ or US-20060208161-\$ or US-20060175536-\$ or US-20040041931-\$ or US-20040051802-\$ or US-20020080263-\$ or US-20030001962-\$ or US-20020027189-\$ or US-20050128329-\$).did. or (US-20020100862-\$ or US-20080136933-\$ or US-20080030605-\$ or US-20010006402-\$ or US-20070285545-\$ or US-20070018267-\$ or US-20050110093-\$ or US-20020018131-\$ or US-20050083421-\$ or US-20050110884-\$).did. or (US-6690421-\$ or US-4930006-\$ or US-6236434-\$ or US-7230646-\$ or US-4514766-\$ or US-4455575-\$ or US-6798451-\$ or US-7256831-\$ or US-6844898-\$ or US-6423959-\$ or US-4774586-\$ or US-6160580-\$ or US-3971065-\$ or US-6522356-\$ or US-5721422-\$ or US-6185270-\$ or US- | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |

5396121-\$ or US-4559550-\$
\$ or US-4500915-\$ or US-7304674-\$ or US-7242427-\$
\$ or US-6674094-\$ or US-6452153-\$ or US-5896173-\$
\$ or US-7315329-\$ or US-7148927-\$).did. or (US-5278660-\$ or US-4876590-\$
\$ or US-4658287-\$ or US-4542409-\$ or US-6784928-\$
\$ or US-4453177-\$ or US-7238926-\$ or US-7075049-\$
\$ or US-7026596-\$ or US-6657665-\$ or US-6423994-\$
\$ or US-6352869-\$ or US-6686960-\$ or US-5500675-\$
\$ or US-5949483-\$ or US-7342213-\$ or US-5786588-\$
\$ or US-4959723-\$ or US-5440343-\$ or US-5400071-\$
\$ or US-5148013-\$ or US-4626898-\$ or US-4314279-\$
\$ or US-4816916-\$ or US-4553167-\$ or US-7408443-\$
\$ or US-6795119-\$).did. or (US-5027195-\$ or US-4821088-\$ or US-4814865-\$
\$ or US-7375748-\$ or US-6483541-\$ or US-7079178-\$
\$ or US-6710804-\$ or US-6697114-\$ or US-6204881-\$
\$ or US-6115065-\$ or US-4647975-\$ or US-6289139-\$
\$ or US-6040570-\$ or US-6008486-\$ or US-5841126-\$
\$ or US-5600696-\$ or US-6972794-\$ or US-6809766-\$
\$ or US-6529242-\$ or US-5434619-\$ or US-6950131-\$
\$ or US-6803952-\$ or US-7148462-\$ or US-6538693-\$
\$ or US-6476864-\$ or US-6067113-\$ or US-6466265-\$).did. or (US-6421085-\$
\$ or US-6166769-\$ or US-6809768-\$ or US-7068317-\$
\$ or US-6587146-\$ or US-6552323-\$ or US-7355641-\$
\$ or US-7379107-\$ or US-6970195-\$ or US-7087883-\$
\$ or US-6750912-\$ or US-6218691-\$ or US-4809075-\$
\$ or US-6791612-\$ or US-7443437-\$ or US-7256381-\$
\$ or US-6867806-\$ or US-6233013-\$ or US-6731335-\$
\$ or US-5543838-\$ or US-7518759-\$ or US-5148268-

| | | | | | | |
|------|------|--|------------------------|----|-----|------------------|
| | | \$ or US-5955753-\$ or US-7476836-\$ or US-5892540-\$ or US-7511323-\$ or US-7382010-\$).did. | | | | |
| S489 | 12 | S488 and (color adj differenc\$4) | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S490 | 86 | "348".clas. and (adjacent or neighbor\$4) near3 (color adj differenc\$4) | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:38 |
| S491 | 8 | ("4757377" "5034805").PN. OR ("5229859").URPN. | US-PGPUB; USPAT; USOOR | OR | ON | 2009/11/19 13:38 |
| S492 | 34 | bryce near3 bayer | US-PGPUB; USPAT; USOOR | OR | ON | 2009/11/19 13:38 |
| S493 | 35 | bayer adj (filter or pattern) with (benefit or advantage) | US-PGPUB; USPAT; USOOR | OR | ON | 2009/11/19 13:38 |
| S494 | 745 | "348".clas. and (short with long) with (expos\$4 or integrat\$4) | US-PGPUB; USPAT; USOOR | OR | ON | 2009/11/19 13:38 |
| S495 | 409 | S494 and (dynamic near3 range) | US-PGPUB; USPAT; USOOR | OR | ON | 2009/11/19 13:38 |
| S496 | 4 | ("6008486" "6674470" "6680498" "6710804").PN. OR ("7397509").URPN. | US-PGPUB; USPAT; USOOR | OR | ON | 2009/11/19 13:38 |
| S497 | 1 | ("6486504").PN. | USPAT | OR | OFF | 2009/11/19 13:38 |
| S498 | 215 | S494 and (dynamic near3 range) and averag\$4 | US-PGPUB; USPAT; USOOR | OR | ON | 2009/11/19 13:38 |
| S499 | 44 | "348".clas. and ((short with long) with (expos\$4 or integrat\$4) same averag \$4) and (dynamic near3 range) | US-PGPUB; USPAT; USOOR | OR | ON | 2009/11/19 13:38 |
| S500 | 9 | ("5325449" "5488674" "5511155" "5828793" "5886822" "6075905").PN. OR ("6584235").URPN. | US-PGPUB; USPAT; USOOR | OR | ON | 2009/11/19 13:38 |
| S501 | 1 | ("2003/0117520").URPN. | USPAT | OR | ON | 2009/11/19 13:38 |
| S502 | 0 | moorehead.xa. | USPAT | OR | ON | 2009/11/19 13:38 |
| S503 | 0 | moorhead.xa. | USPAT | OR | ON | 2009/11/19 13:38 |
| S504 | 8 | morehead.xa. | USPAT | OR | ON | 2009/11/19 13:38 |
| S505 | 3435 | "16 phase" | USPAT | OR | ON | 2009/11/19 13:38 |
| S506 | 187 | "16 phase" and "348".clas. | USPAT | OR | ON | 2009/11/19 13:38 |

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|------|-----|--|---------------------------|----|-----|---------------------|
| S507 | 12 | ("5528291" "5608455"). PN. OR ("6583818").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 13:38 |
| S508 | 15 | ("20030035499" "20050103977" "20050206752" "20060239079" "5572155" "5946033" "6011251" "6166768" "6303923" "6850278" "6853241" "7154075" "7274009" "7324144" "7453986").PN. | US-PGPUB; USPAT | OR | ON | 2009/11/19 15:22 |
| S509 | 14 | ("20020139921" "20020154347" "20030193580" "20040246354" "5949483" "6222175" "6377304" "6421085" "6850278").PN. OR ("7154075").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 17:07 |
| S510 | 41 | ("20010007471" "20020154231" "4709147" "4737854" "4835404" "4879470" "4967067" "4972243" "5162912" "5172249" "5184006" "5262870" "5539196" "5693932" "5714752" "5818052" "5861917" "5990471" "6002287" "6011251" "6133862" "6243134" "6317154" "6512546" "6538693" "6587146" "R34309").PN. OR ("6850278").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 17:11 |
| S511 | 137 | "348".clas. and parallel with sampl\$4 with capacitor | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 17:21 |
| S512 | 36 | ("4589028" "4809074" "4839729" "4843473"). PN. OR ("5172249").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 17:25 |
| S513 | 1 | ("6757016").PN. | US-PGPUB; USPAT | OR | OFF | 2009/11/19 17:29 |
| S514 | 1 | ("6977684").PN. | US-PGPUB; USPAT | OR | OFF | 2009/11/19 17:58 |

| | | | | | | |
|------|----|--|---------------------------|----|----|---------------------|
| S515 | 40 | "4477835" "4636865" "4768085" "4876601" "4910597" "4910599" "4914519" "4967067" "4985758" "5162912" "5220170" "5262850" "5288988" "5315412" "5418387" "5424529" "5442396" "5461425" "5587814" "5721422" "5955753" "6021172" "6107655" "6160281" "6522356" "6538693") . PN. OR ("6977684").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/19 18:02 |
|------|----|--|---------------------------|----|----|---------------------|

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